

CLAIMS

IN THE CLAIMS:

1. A process for fabricating fibrous monolith composites comprising:
combining a first powder with a thermoplastic polymer binder and a thermoplastic
5 plasticizer to create a uniformly suspended composition,
combining a second powder with a thermoplastic polymer binder and a
thermoplastic plasticizer to create a uniformly suspended second composition,
warm pressing the first and second uniformly suspended compositions to create a
feed rod having a first portion of the first composition surrounded by a second portion of the
10 second composition; and
extruding the feed rod through a deposition nozzle onto a mechanically-controlled
surface to create a fibrous monolith composite.

2. The process of Claim 1 wherein the first and second powders are selected from
the group consisting of metal, metal alloy, carbide, nitride, boride, oxide, phosphate and
silicide.